

Analytical Measurements Research Laboratory (AMRL)

**Philippine Nuclear Research Institute
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Philippine Nuclear Research Institute



Mandate

- Undertake research and development activities in the peaceful uses of nuclear energy.
- To institute regulations on the said uses and to carry out the enforcement of said regulations to protect the health and safety of radiation workers and the general public.

Divisions

- Atomic Research Division
- Nuclear Services Division
- Nuclear Regulatory Division
- Technology Diffusion Division
- Finance and Administration Division



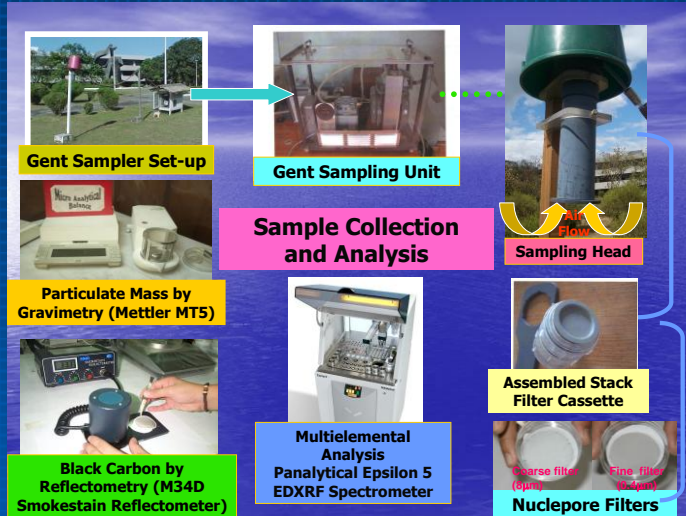
Analytical Measurements Research Section (AMR)



- Provides analytical services for radioactivity measurements and elemental determinations.
 - Gross Alpha/Beta Analysis of Drinking Water.
 - Gammametric Analysis of foodstuffs & related samples.
 - Elemental Analysis of Air Filters & Environmental Samples by energy dispersive x-ray fluorescence spectrometry.
 - Determination of Vinegar Adulteration by Radiocarbon-14 Dating using Liquid Scintillation Counting
- Undertakes research & development on nuclear and nuclear related as well as isotopic analytical techniques for various applications.



Analytical Measurements Research Section (AMR)



- **Ongoing Researches**

- Air pollution studies employing nuclear related analytical techniques
- Isotope Hydrology Studies
- Development of a methodology for radon-226 determination in water.



Analytical Measurements Research Section (AMR)



- **ISO 17025 Accredited**
 - July 28, 2009 by the Philippine Accreditation Office (PAO)
 - Gross Alpha/Beta Analysis of Drinking water.
 - Gammametric Analysis of foodstuffs & environmental samples.
 - Elemental Analysis of Air Filters & Environmental Samples by energy dispersive x-ray fluorescence spectrometry (on-going)
- **Other Facilities**
 - Environmental Isotope Center: Isotope Ratio Mass Spectrometry
 - Groundwater Dating Facility



Other PNRI activities and services

- Decommissioning of the Philippine Research Reactor-1 (PRR-1)
- Measurement of low-level radioactivity in different types of environmental samples collected in various parts of the Philippines.
- Agricultural research endeavors
- Licensing of radioactive materials and facilities, safeguards and inspection.



Thank you and Mabuhay!

